

12-28-01

A

PTO/SB/05 (11-00)

Please type a plus sign (+) inside this box → ☒

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	135863/ATL-2001-008
First Inventor	Amber D. Greenwalt
Title	NETWORK ELEMENT TERMINAL DATA INTERFACE SYSTEM AND METHOD
Express Mail Label No.	ET702669256US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **82**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **24**]
5. Oath or Declaration [Total Pages **4+6=10**]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b)
6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: _____ / _____

Prior application information:

Examiner _____

Group Art Unit _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS☒ Customer Number or Bar Code Label**024587**or ☐ Correspondence address below

Name

Address

City

State

Zip Code

Country

Telephone

972-738-8505

Fax

972-381-4201

Name (Print/Type)

Kevin Mark Klughart

Registration No. (Attorney/Agent)

39252

Signature

Kevin Mark Klughart 12/21/2001

Date

12/21/2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

ET702669256US

PTO/SB/17 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 2448

Complete if Known

Application Number

Filing Date

12/21/2001

First Named Inventor

Amber D. Greenwalt

Examiner Name

Group Art Unit

Attorney Docket No.

135863/ATL-2001-008

METHOD OF PAYMENT

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number

Deposit Account Name

☐ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$) 740

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
94	-20** = 74	18.00	1332.00
7	-3** = 4	84.00	336.00
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
103	18	203	9	Claims in excess of 20	
102	84	202	42	Independent claims in excess of 3	
104	280	204	140	Multiple dependent claim, if not paid	
109	84	209	42	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$) 1668

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$) 40

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)

Kevin Mark Klughart

Registration No. (Attorney/Agent)

39252

Telephone

972-738-8505

Signature

12/21/2001

Date

12/21/2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ET702669256US

PTO/SB/35 (11-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST AND CERTIFICATION**UNDER
35 U.S.C. 122(b)(2)(B)(i)**

First Named Inventor

Amber D. Greenwalt

Title

NETWORK ELEMENT TERMINAL DATA INTERFACE SYSTEM AND
METHOD

Atty Docket Number

135863/ATL-2001-008

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

12/21/2001

Date


Signature**Kevin Mark Klughart**

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Utility Patent Application Transmittal Letter

December 21, 2001

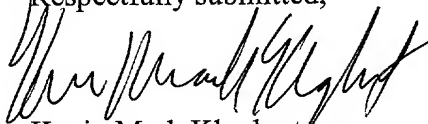
Honorable Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir:

Accompanying this letter are the following:

- (a) An application for U.S. Patent by applicants Amber D. Greenwalt, Randy J. Ellis, Adam S. Benz, Robert G. Utterback, Christopher D. Atkins, Deborah L. Maznaritz, Timothy P. Brown, Bryan J. McGlade, and Zhejing (nmn) Luo for NETWORK ELEMENT TERMINAL DATA INTERFACE SYSTEM AND METHOD.
- (b) An INFORMATION DISCLOSURE STATEMENT detailing prior art that the Applicant wishes to make known to the Examiner.
- (c) Fee transmittal (PTO/SB/17) and check.
- (d) Utility Patent Transmittal Form (PTO/SB/05).
- (e) Inventor Declaration (PTO/SB/01).
- (f) Patent Application Assignment and cover sheets (PTO-1618).
- (g) Power of Attorney (PTO/SB/81).
- (h) Request and Certification per 35 U.S.C. § 122(b)(2)(B)(i).
- (i) MPEP § 503 return receipt postcard.

Respectfully submitted,

 12/21/2001

Kevin Mark Klughart, Ph.D., P.E., J.D., M.I.P., L.L.M.

USPTO Registration Number 39252

5068 W Plano Pkwy, STE 300, Plano, TX 75093

tel: (972) 738-8505

fax: (972) 381-4201

TABLE OF CONTENTS

(PROVIDED FOR EXAMINATION REFERENCE PURPOSES)

PATENT APPLICATION INVENTOR.....	2
SPECIFICATION	4
TITLE OF INVENTION.....	4
CROSS REFERENCE TO RELATED APPLICATIONS	4
PARTIAL WAIVER OF COPYRIGHT	4
STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT	5
REFERENCE TO A MICROFICHE APPENDIX.....	5
FIELD OF THE INVENTION	5
BACKGROUND AND DESCRIPTION OF THE PRIOR ART	5
Overview (0100).....	5
Best Existing Solutions.....	6
Prior Art System Deficiencies (0100).....	7
Prior Art Method Deficiencies (0200).....	7
OBJECTIVES OF THE INVENTION	9
BRIEF SUMMARY OF THE INVENTION.....	10
System Overview (0300)	10
Method Overview (0400)	12
BRIEF DESCRIPTION OF THE DRAWINGS	13
DESCRIPTION OF THE PRESENTLY PREFERRED EXEMPLARY EMBODIMENTS.....	16
Definitions	17
System Blocks / Procedural Steps Not Limitive	17
Personal Computer Not Limitive	18
Internet/Intranet Not Limitive	19
Application Programming Interface (API) Not Limitive	20
Graphical User Interface (GUI) Not Limitive	20
Operating System Not Limitive	20
Data Files/Structures Not Limitive.....	21
TL1 Commands Not Limitive	21
Acronyms	22
Exemplary System Overview (0500).....	24
Communications (0306)	26
NE Connection User Interface (1500).....	26
Gateway	27
Login Handler - TL1DataLoginHandler	28
Logout Handler - TL1DataLogoutHandler.....	28
DataAgent Handler - TL1DataAgent.....	29
Writing Commands.....	29
Administration (0310)	29
HTML-to-XML Conversion.....	30
Overview (0600, 1800)	30
Example (0700, 0800)	33
Generalized Translation Method (1900, 2000).....	35
Exemplary XML DTDs (2100, 2200).....	38
Exemplary Update Method (0900).....	38

Exemplary TL1DAT Operator/User Interface (1000, 1600, 1700).....	40
Menu (1610).....	41
Command Window (1620).....	43
Response Window (1630).....	44
Command Creation Panel (1100, 1640).....	44
On-line Help (1611).....	45
About.....	45
Browser.....	45
Parameter Help (1400, 1410, 1420).....	46
User's Guide.....	46
Operator/User Interface Abstraction (1700).....	46
PREFERRED SYSTEM CONTEXT OF THE PRESENT INVENTION.....	47
Overview.....	47
Terminology.....	47
Generalized System Specifications (TL1DAT).....	48
Generalized NE I/O Manual Content Extension (2300).....	56
Generalized NE I/O Manual Content Distribution (2400).....	56
CONCLUSION.....	58
CLAIMS.....	59
ABSTRACT OF THE DISCLOSURE.....	82